

FIG. 1

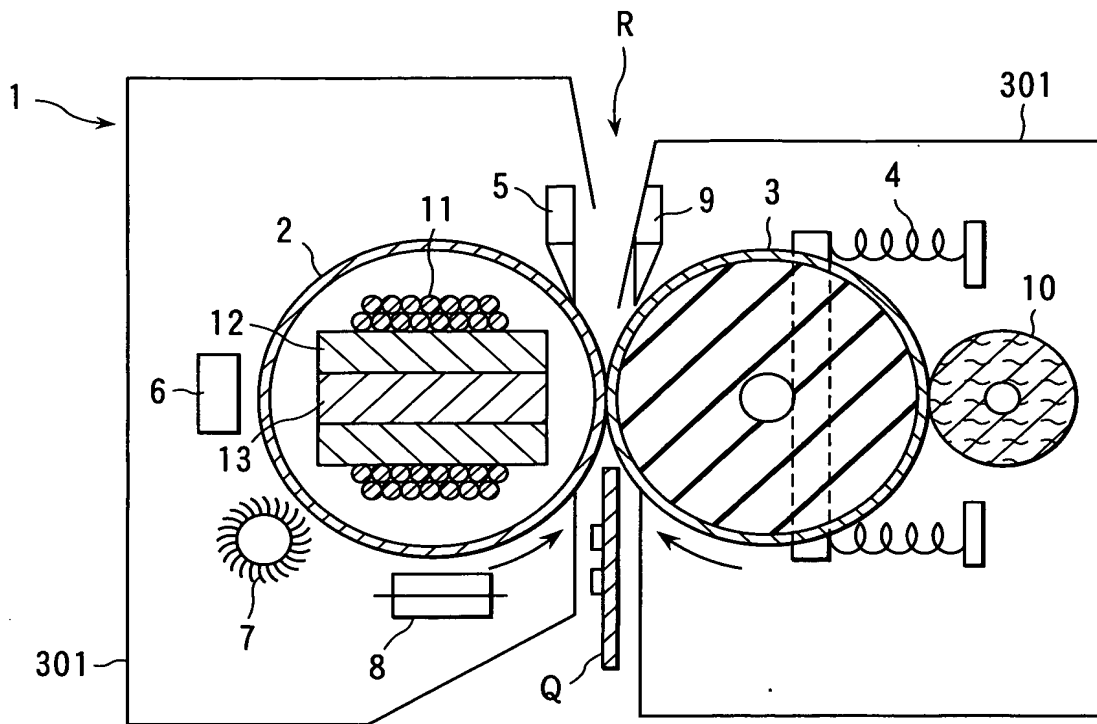


FIG. 2

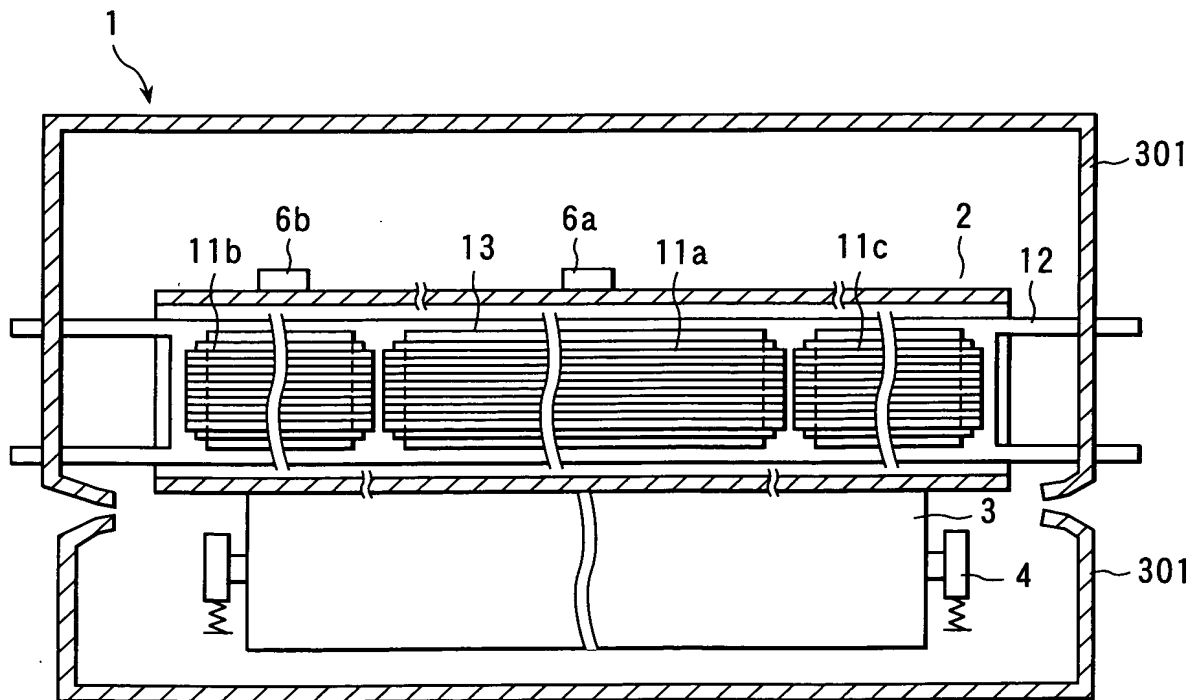
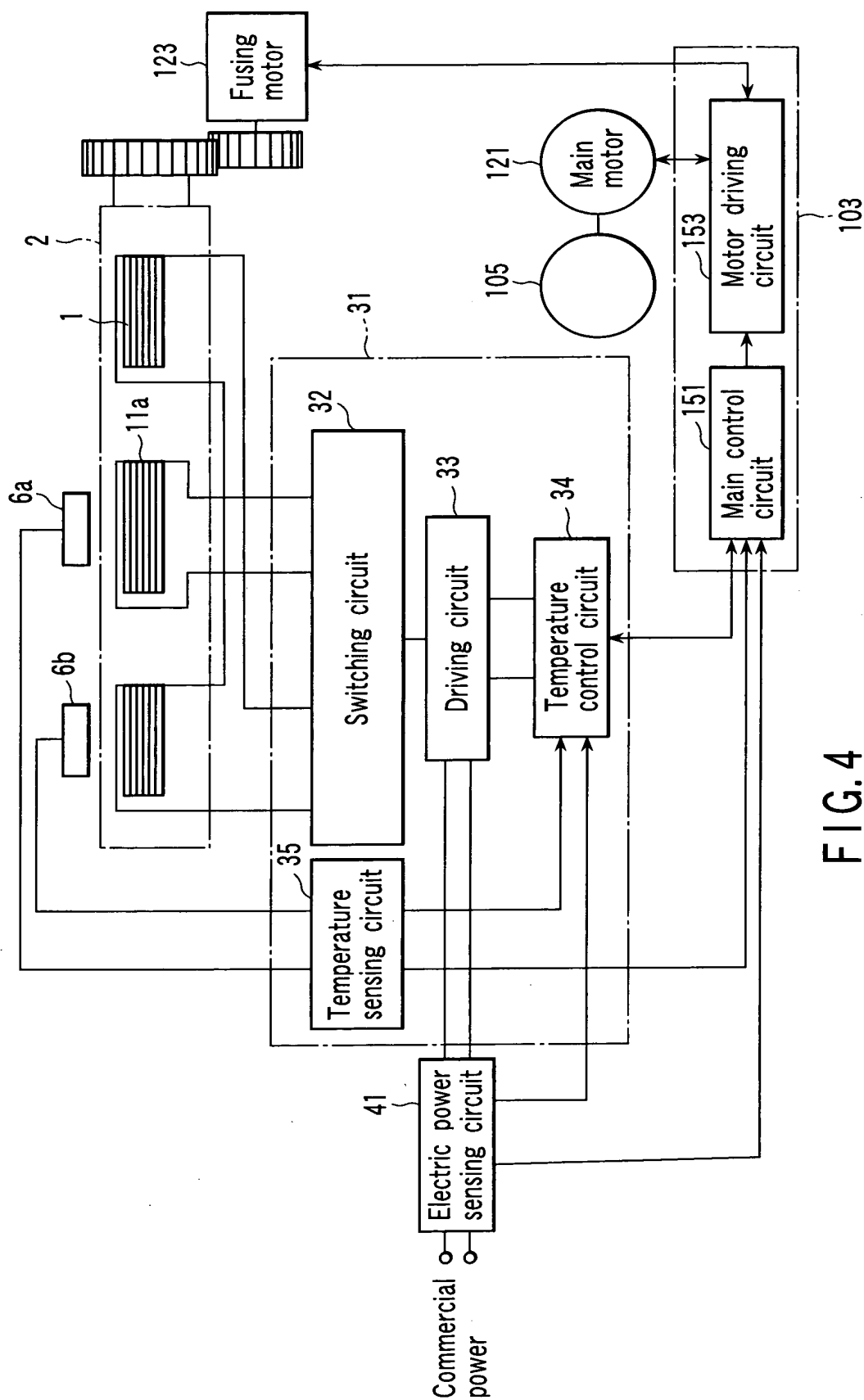
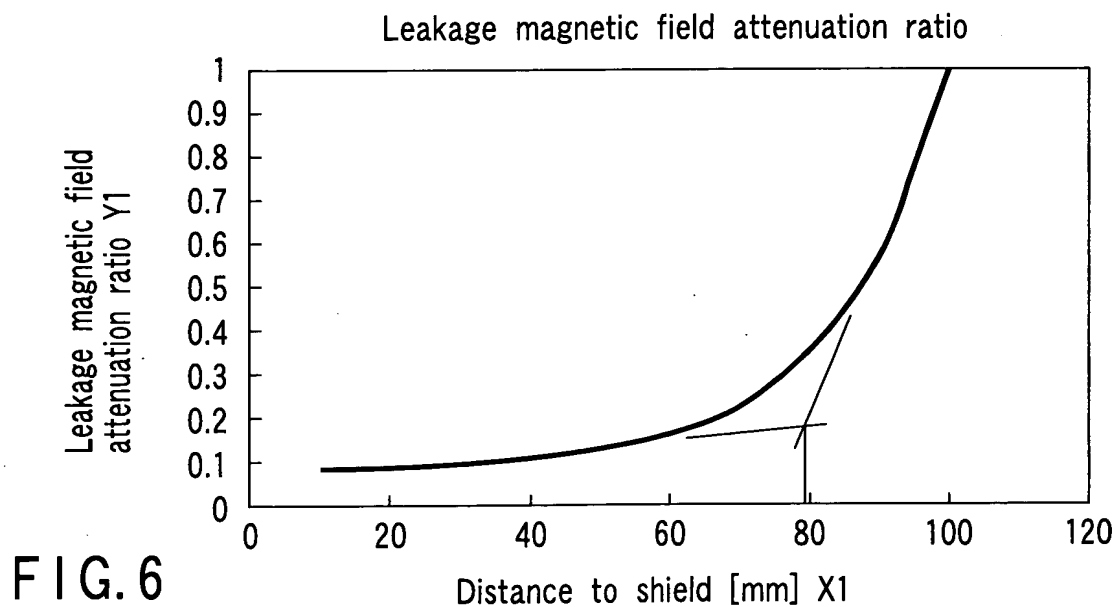
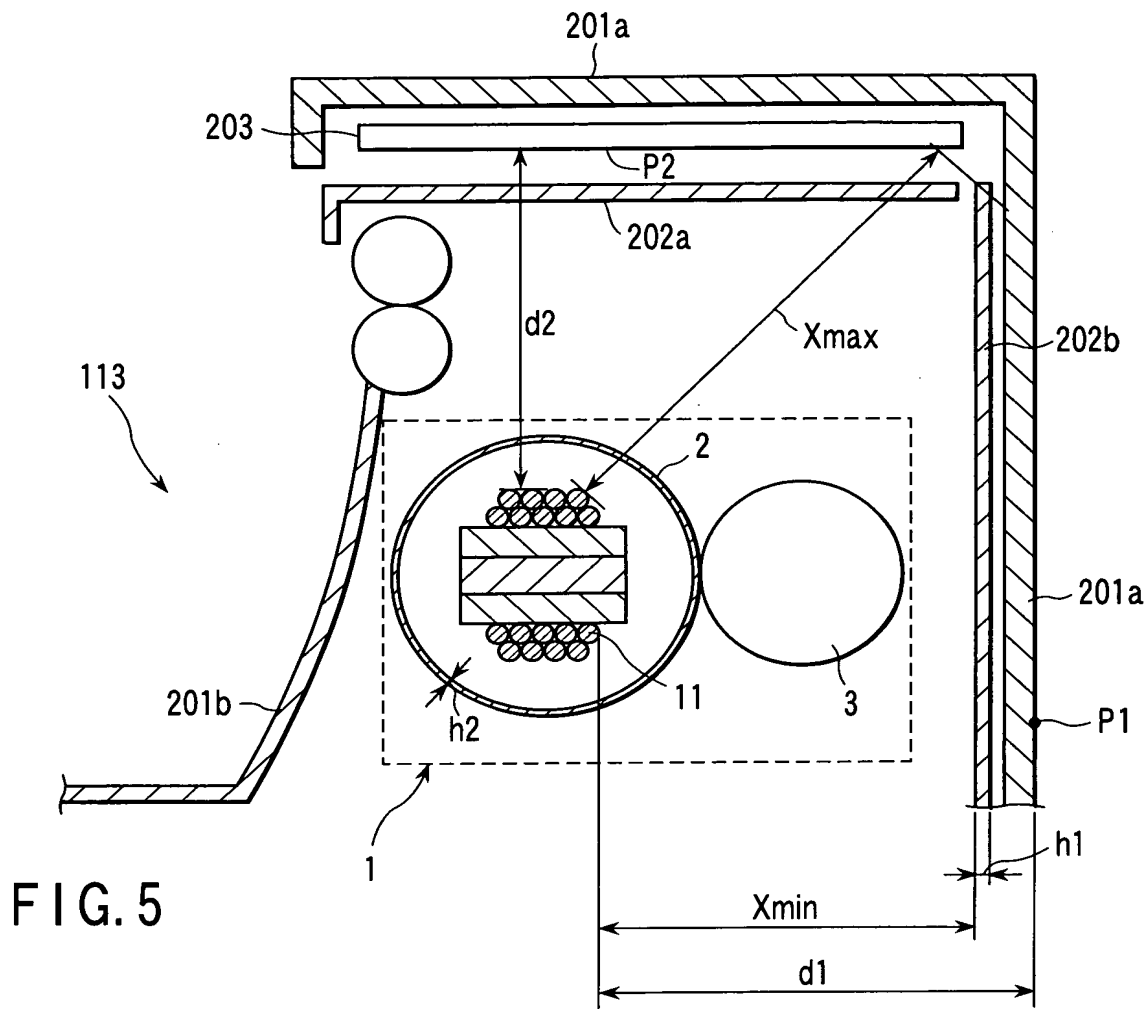


FIG. 3



**FIG. 4**



Skin depth of each metal material at the frequency used [ $\mu\text{m}$ ]

	Copper	Aluminium	Iron	Nickel
20kHz	14.78	17.80	35.60	29.07
40kHz	10.45	12.59	25.17	20.55
60kHz	8.53	10.28	20.55	16.78
80kHz	7.39	8.90	17.80	14.53
100kHz	6.61	7.96	15.92	13.00

FIG. 7

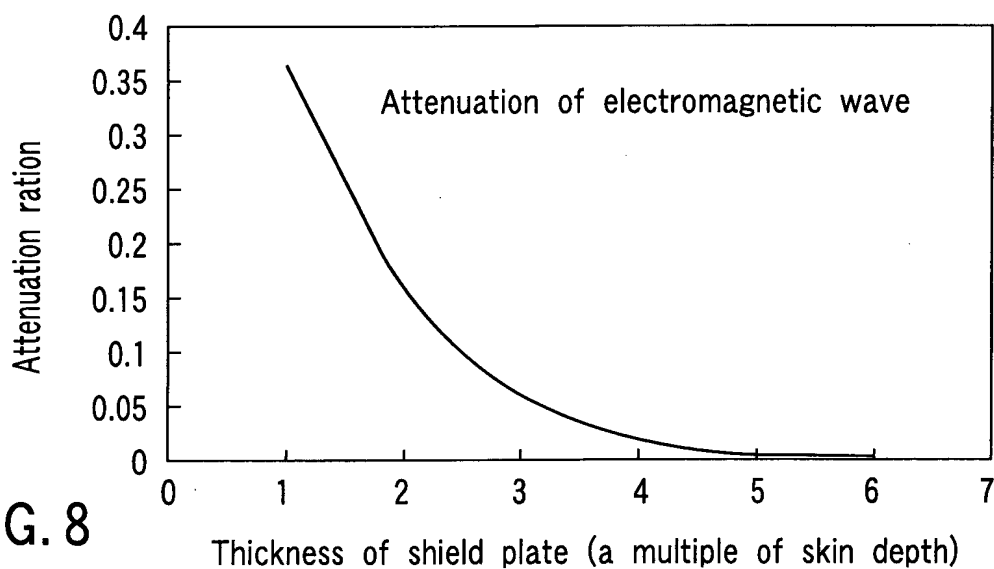


FIG. 8

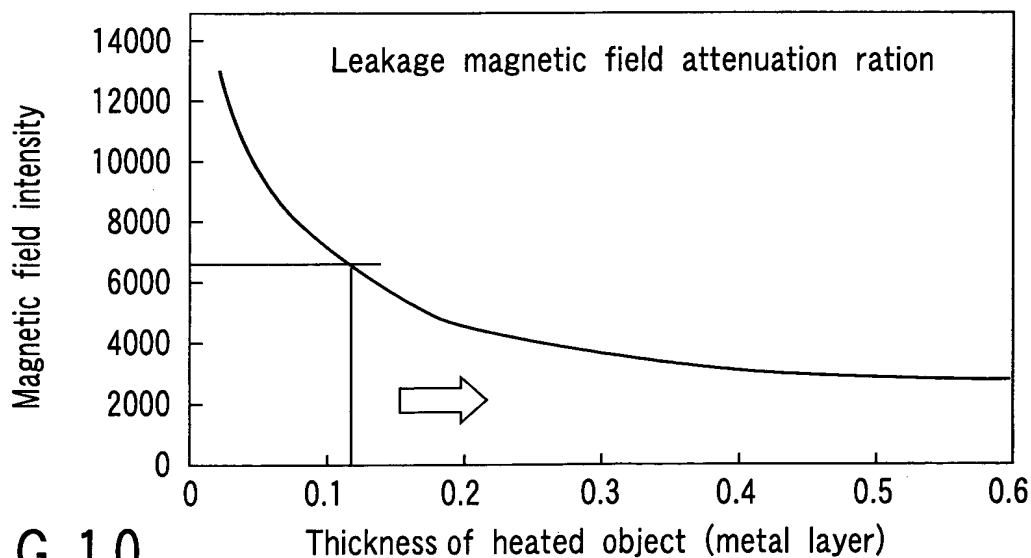


FIG. 10

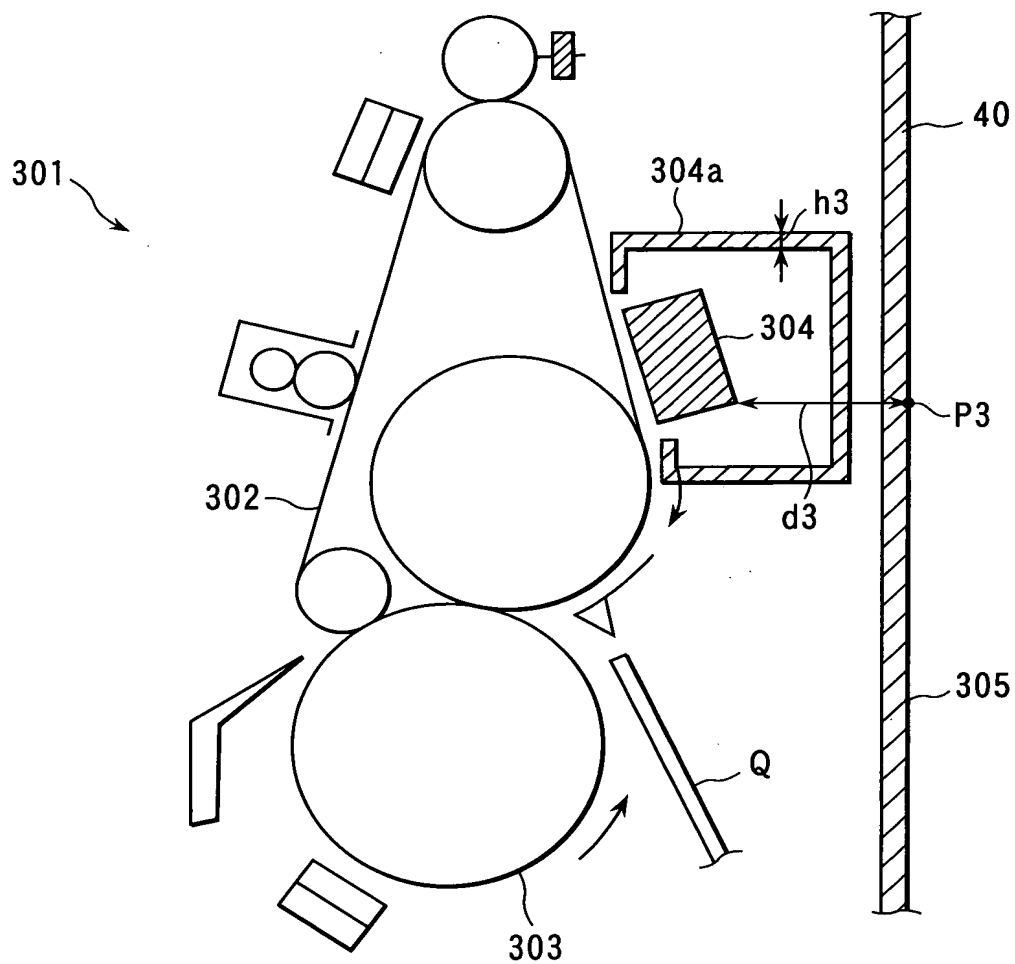


FIG.9